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## (54) INK JET RECORDING DEVICE

### (57) Abstract:

**PURPOSE:** To accurately detect the life of an ink jet head by a method wherein a power supply means feeds an electric current to a dummy heater provided in a recording head at every time of supplying power to discharging heaters in the recording head, and a broken wire detection means detects the breaking of wires in the case where the wires of the dummy heater are broken.

**CONSTITUTION:** At the time of switching on a power source, a flip-flop 11 is reset by a system reset signal 12. When printing signals 14 (H0-H7) are inputted, transistors 3 corresponding to the printing signals are operated through a buffer 1 and a resistor 2 to operate discharging heaters 4. At the same time, the printing signals 14 (H0-H7) are also inputted into an OR circuit 5, and a transistor 7 is operated through a resistor 6 by an output from the OR circuit to operate a dummy heater 8. According to such a circuit, the dummy heater 8 is always operated even when one of the discharging heaters 4 is operated. If it is so judged that the life of a printing head comes to an end when the wire of the dummy heater which has high frequency in operation is broken, the damage of the printing head due to its life can be prevented.

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